

ABSTRACT OF THE DISCLOSURE

5 Data having three values or more is stored in a
memory cell in a nonvolatile manner. A data circuit
has a plurality of storage circuits. One of the
plurality of storage circuits is a latch circuit.
Another one of the plurality of storage circuits is a
capacitor. The latch circuit and the capacitor
function to temporarily store program / read data
having two bits or more. Data held by the capacitor is
10 refreshed using the latch circuit if data variation due
to leakage causes a program. As a result, the data
circuit does not become large in size even if multi-
level data is used.

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